

Notice of Allowability

Application No.

10/067,414

Applicant(s)

JASPERS, CORNELIS ANTONIE
MARIA

Examiner

Kelly L. Jerabek

Art Unit

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE Filed 2/6/2006.
2. ☒ The allowed claim(s) is/are 1, 3-6 (renumbered as 2-5) and 9 (renumbered as 6).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Please change the status of claim 9 from "(Original)" to "(Currently Amended)"

Allowable Subject Matter

Claims 1, 3-6 (renumbered as 2-5) and 9 (renumbered as 6) are allowed.

The following is an examiner's statement of reasons for allowance:

Re claims 1, 3-6 (renumbered as 2-5) and 9 (renumbered as 6), the prior art of record fails to teach or suggest "A device and method for interpolating a missing color value of a pixel, said method comprising: providing individual color information of all

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neighboring vertical and horizontal pixels; selecting a pixel of the second group; interpolating the missing color value wherein said interpolating step comprises: determining whether the selected pixel forms part of an edge in the image and in case the edge has an angle to the vertical line being different from 90 degrees: determining a horizontal average value of the horizontal neighboring pixels, determining a vertical average value of the vertically neighboring pixel, calculating a median value using the determined horizontal average value, the determined vertical average value and the second color information at the position of the selected pixel, and in case the edge has an angle to the vertical line substantially equal to 90 degrees: calculating the median value of the individual first color informations and the second color information".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jaspers (US 6,263,102) discloses color and contour signal generation. The information regarding image signal color correction is relevant material.

Adams Jr. et al. (US 5,652,621) discloses adaptive color plane interpolation in a single sensor color electronic camera. The information regarding interpolation is relevant material.

Ikeda (US 5,528,292) discloses an electric still camera having a plurality of image pickup elements with color filters. The information regarding image signal color correction is relevant material.

Wober et al. (US 5,475,769) discloses a method and apparatus for recovering image data through the use of a color test pattern. The information regarding interpolation is relevant material.

Hibbard (US 5,382,976) discloses an apparatus and method for adaptively interpolating a full color image utilizing luminance gradients. The information regarding interpolation is relevant material.

Tsai et al. (US 5,065,229) discloses a compression method and apparatus for single-sensor color imaging systems. The information regarding interpolation is relevant material.

Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelly L. Jerabek whose telephone number is (571) 272-7312. The examiner can normally be reached on Monday - Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for submitting all Official communications is (703) 872-9306. The fax phone number for submitting informal communications such as drafts, proposed amendments, etc., may be faxed directly to the Examiner at (571) 273-7312.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLJ



TUAN HO
PRIMARY EXAMINER